

## FLAME-RETARDANT STYRENIC RESIN COMPOSITION

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### Abstract

**PURPOSE:** To obtain a flame-retardant styrenic resin compsn. excellent in flame retardance and the balance among heat resistance, impact resistance, and flowability by compounding a styrenic resin with two specific halogenous flame retardants, an auxiliary flame retardant, and a small amt. of polytetrafluoroethylene.

**CONSTITUTION:** This resin compsn. comprises 100 pts.wt. styrenic resin (A), 2-18 pts.wt. halogenated arom. -diol-based ether deriv. (B) having a wt.-average mol.wt. of 500-10,000 [a compd. of formula I (wherein R is H, a group of formula II, etc.; X is Br or Cl; (l), (j), (k), and (m) are each 1-4; and (n) is 0-30)], 2-16 pts.wt. polyhalogenated diphenylalkane (C) of formula III [wherein X is Br or Cl; (l) and (m) are each 0-5 excluding the case where they are both 0; and R is C<sub>n</sub>H<sub>2n</sub> (wherein (n) is 1-10)], 1-10 pts.wt. Sb<sub>2</sub>O<sub>3</sub> (D), and 0.01-0.5 pt.wt. polytetrafluoroethylene (E), the sum of components B and C being 12-21 pts.wt. Thus, a compsn. excellent in flame retardance and the balance among heat resistance, impact resistance, and flowability is obtnd. with a reduced amt. of halogenous flame retardants.

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